Alan Shiels

List of Publications by Year
in descending order

31 papers	1,894 citations	361413 20 h-index	477307 29 g-index
32 all docs	32 docs citations	32 times ranked	1607 citing authors

#	Article	IF	Citations
1	Inherited cataracts: Genetic mechanisms and pathways new and old. Experimental Eye Research, 2021, 209, 108662.	2.6	34
2	Mutation of the EPHA2 Tyrosine-Kinase Domain Dysregulates Cell Pattern Formation and Cytoskeletal Gene Expression in the Lens. Cells, 2021, 10, 2606.	4.1	9
3	Mutation of the TRPM3 cation channel underlies progressive cataract development and lens calcification associated with proâ€fibrotic and immune cell responses. FASEB Journal, 2021, 35, e21288.	0.5	19
4	TRPM3_miR-204:Âa complex locus for eye development and disease. Human Genomics, 2020, 14, 7.	2.9	27
5	A charged multivesicular body protein (CHMP4B) is required for lens growth and differentiation. Differentiation, 2019, 109, 16-27.	1.9	15
6	Biology of Inherited Cataracts and Opportunities for Treatment. Annual Review of Vision Science, 2019, 5, 123-149.	4.4	76
7	Epha2 and Efna5 participate in lens cell pattern-formation. Differentiation, 2018, 102, 1-9.	1.9	23
8	Mutations and mechanisms in congenital and age-related cataracts. Experimental Eye Research, 2017, 156, 95-102.	2.6	165
9	Germ-line and somatic EPHA2 coding variants in lens aging and cataract. PLoS ONE, 2017, 12, e0189881.	2.5	8
10	Lens ER-stress response during cataract development in Mip-mutant mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 1433-1442.	3.8	37
11	Lens transcriptome profile during cataract development in Mip-null mice. Biochemical and Biophysical Research Communications, 2016, 478, 988-993.	2.1	8
12	Overview of the Lens. Progress in Molecular Biology and Translational Science, 2015, 134, 119-127.	1.7	49
13	Lens Biology and Biochemistry. Progress in Molecular Biology and Translational Science, 2015, 134, 169-201.	1.7	71
14	Molecular Genetics of Cataract. Progress in Molecular Biology and Translational Science, 2015, 134, 203-218.	1.7	73
15	Role of Aquaporin 0 in lens biomechanics. Biochemical and Biophysical Research Communications, 2015, 462, 339-345.	2.1	51
16	Exome Sequencing Identifies a Missense Variant in EFEMP1 Co-Segregating in a Family with Autosomal Dominant Primary Open-Angle Glaucoma. PLoS ONE, 2015, 10, e0132529.	2.5	42
17	Mutation of the Melastatin-Related Cation Channel, TRPM3, Underlies Inherited Cataract and Glaucoma. PLoS ONE, 2014, 9, e104000.	2.5	39
18	Exome sequencing identifies novel and recurrent mutations in GJA8 and CRYGDassociated with inherited cataract. Human Genomics, 2014, 8, 19.	2.9	42

#	Article	IF	Citations
19	Focus on Molecules: Major intrinsic protein. Experimental Eye Research, 2012, 101, 107-108.	2.6	8
20	A Role forEpha2in Cell Migration and Refractive Organization of the Ocular Lens. , 2012, 53, 551.		54
21	Cat-Map: putting cataract on the map. Molecular Vision, 2010, 16, 2007-15.	1.1	226
22	The EPHA2 gene is associated with cataracts linked to chromosome 1p. Molecular Vision, 2008, 14, 2042-55.	1.1	129
23	Refractive Defects and Cataracts in Mice Lacking Lens Intrinsic Membrane Protein-2. , 2007, 48, 500.		52
24	Genetic Origins of Cataract. JAMA Ophthalmology, 2007, 125, 165.	2.4	154
25	CHMP4B, a Novel Gene for Autosomal Dominant Cataracts Linked to Chromosome 20q. American Journal of Human Genetics, 2007, 81, 596-606.	6.2	102
26	X-linked idiopathic infantile nystagmus associated with a missense mutation in FRMD7. Molecular Vision, 2007, 13, 2233-41.	1.1	13
27	Galactokinase gene mutations and age-related cataract. Lack of association in an Italian population. Molecular Vision, 2003, 9, 397-400.	1.1	14
28	Optical dysfunction of the crystalline lens in aquaporin-0-deficient mice. Physiological Genomics, 2001, 7, 179-186.	2.3	126
29	Disruption of lens fiber cell architecture in mice expressing a chimeric AQP0â€ŁTR protein. FASEB Journal, 2000, 14, 2207-2212.	0.5	56
30	Connexin 50 mutation in a family with congenital "zonular nuclear" pulverulent cataract of Pakistani origin. Human Genetics, 1999, 105, 168-170.	3.8	33
31	Connexin 50 mutation in a family with congenital "zonular nuclear" pulverulent cataract of Pakistani origin. Human Genetics, 1999, 105, 168-170.	3.8	139